

A RESOURCE RESERVATION SCHEME FOR PATH RESTORATION IN AN OPTICAL NETWORK

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5 **ABSTRACT**

10 A method for restoring a virtual path, provisioned between a source and a target node, in a mesh optical network is described. The method, in one embodiment, forwards a resource request in the network to identify an alternate route. Each node identifies and allocates resources for failed virtual path and the virtual path is provisioned using these resources. The constant update of nodal topology by each node allows a fast identification of nodes with required bandwidth for failed virtual path.